

What is claimed is:

1. A compressed or uncompressed audio data feature description method, wherein

audio features are hierarchically represented by setting an audio program which means entire audio data constructing one audio program at the highest hierarchy and describing the audio features in a order from higher to lower hierarchies.

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2. A compressed or uncompressed audio data feature description method according to claim 1, wherein

said hierarchies are represented by one or more audio programs having a semantically continuous content and at least either an audio scene or an audio shot.

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3. A compressed or uncompressed audio data feature description method according to claim 1, wherein

said hierarchy is described by at least a name of the hierarchy, audio data type, feature type and feature value which is represented by audio segment information classified according to the feature types.

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4. A compressed or uncompressed audio data feature description method according to claim 2, wherein

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said hierarchy is described by at least a name of the hierarchy, audio data type, feature type and feature value which is represented by audio segment information classified according to the feature type.

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5. A compressed or uncompressed audio feature description method according to claim 3, wherein

said audio segment information are described by any of time codes for start time and end time, time codes for start time and duration, a start frame number and an end frame number, or a start frame number and number of frames corresponding to duration.

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6. A compressed or uncompressed audio data feature description method according to claim 4, wherein

said audio segment information are described by any of time codes for start time and end time, time codes for start time and duration, a start frame number and an end frame number, or a start frame number and number of frames corresponding to duration.

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7. A compressed or uncompressed audio data feature description method, wherein

feature values of the audio program are represented

by an audio thumbnail indicating either one or more audio pieces or images;

the audio thumbnail is declared and described as the feature type;

5 if the audio thumbnail is the audio pieces, one or more audio segment information of audio pieces are described; and

if the thumbnail is the images, one or more file names of the images are described.

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8. A compressed or uncompressed audio data feature description method, wherein

feature values of at least one audio scene or at least
15 one audio shot are represented by an audio clip which is at least one audio piece having an arbitrary length equal to or shorter than that of the audio scene or the audio shot, respectively.

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9. A compressed or uncompressed audio data feature description method according to claim 8, wherein

at least one audio clip representing characteristic of said audio scenes or audio shots is represented as the
25 key audio clip.

10. A compressed or uncompressed audio data feature description method according to claim 9, wherein the key audio clip is declared and described as a feature type;

5 if an audio data type of the key audio clip is voice,
a voice representing characteristic of the key audio clip
is represented as the key word and the content of the key
word is described by text information; and

at least one audio segment corresponding to the key
10 word is described.

11. A compressed or uncompressed audio feature
description method according to claim 9, wherein
15 the key audio clip is declared and described as a feature
type;

if an audio data type of the key audio clip is music,
a music representing characteristic of the key audio clip
is represented the a key note; and
20 at least one audio segment corresponding to the key
note is described.

12. A compressed or uncompressed audio data feature
25 description method according to claim 9, wherein
the key audio clip is declared and described as a feature
type;

event is described.

- 5 ~~15.~~ A compressed or uncompressed audio data feature
description method, wherein
audio data from a representative audio source in audio
data is represented as the key object;
the key object is declared and described as a feature
type;
10 a content of the key object is declared and described
by text information; and
at least one audio segment corresponding to the key
object is described.

- 15 ~~16.~~ A compressed or uncompressed audio data feature
description method, wherein
at least one introduction or representative audio piece
of an audio program, an audio scene or an audio shot is
20 represented as an audio segment;
a sequence of the audio segments is represented as an
audio slide;
the audio slide is declared and described as a feature
type; and
25 the audio segments constructing the audio slide are
described.

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17. A compressed or uncompressed audio data feature description method, wherein

at least one introduction or representative audio piece
5 of an audio program, an audio scene or an audio shot is saved as an audio file;

a sequence of the audio files is represented as an audio slide;

the audio slide is declared and described as a feature
10 type; and

file names of the audio files constructing the audio slide are described.

15 18. A compressed or uncompressed audio data feature description method, wherein

if feature type is one of a shot, a key audio clip, a key word, a key note or a key sound, value indicating level of the feature types is described; and

20 audio data for multiple feature types are described hierarchically according to the level values.

19. A compressed or uncompressed audio video data
25 feature description collection construction method, wherein

feature descriptions based on multiple feature types

are associated with individual audio video programs;

the feature descriptions are extracted from multiple audio video programs based on a specific feature type;

a feature description collection is constructed by
5 using multiple extracted feature descriptions; and

the feature description collection is described as a feature description collection file.

10 20. A compressed or uncompressed audio video data feature description collection construction method according to claim 19, wherein

the feature type is a summary type;

summary descriptions associated with the individual
15 audio video programs are extracted from multiple audio video programs based on a specific summary type;

a summary collection is constructed using multiple extracted summary descriptions; and

the summary collection is described as a summary
20 collection file.

21. A compressed or uncompressed audio video data feature description collection construction method
25 according to claim 19, wherein

as element for describing the feature description collection in the feature description collection file, the

feature types for constructing the feature description collection and contents of the feature types are described at a higher level; and

5 identifiers of the audio video programs referred to by each feature description and specification of each segment information in the audio video programs are described.

22. A compressed or uncompressed audio video data
10 feature description collection construction method according to claim 21, wherein

if the feature is a summary of audio video data, summary types for constructing the summary collection and contents of the summary types are described at a higher level as
15 elements for describing the summary collection in the summary collection file;

identifiers of the audio video programs referred to by each summary description and specification of segment information of each summary in the audio video programs are
20 described at a lower level.

23. A compressed or uncompressed audio video data
feature description collection construction method
25 according to claim 19, wherein

the feature types for constructing the feature description collection and contents of the feature types

are described altogether in a nested structure, whereby the feature description collection can be constructed and described based on different feature types, or based on different contents of feature types among the same feature
5 type.

24. A compressed or uncompressed audio video data feature description collection construction method
10 according to claim 21, wherein

the feature types for constructing the feature description collection and contents of the feature types are described altogether in a nested structure, whereby the feature description collection can be constructed and
15 described based on different feature types, or based on different contents of feature types among the same feature type.

20 25. A compressed or uncompressed audio video data feature description collection construction method according to claim 20, wherein

the summary types for constructing the summary collection and contents of the summary types are described
25 altogether in a nested structure, whereby the summary collection can be constructed and described based on different summary types or based on different contents of

summary types among the same summary type.

26. A compressed or uncompressed audio video data
5 feature description collection construction method
according to claim 22, wherein

the summary types for constructing the summary
collection and contents of the summary types are described
altogether in a nested structure, whereby the summary
10 collection can be constructed and described based on
different summary types or based on different contents of
summary types of the same summary type.